IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A computer-implemented method for assigning resources to items, comprising:

identifying one or more assignment strategies for assigning one or more resources to one or more items;

for each identified assignment strategy, determining an assignment score for each item/resource pair;

summing the assignment scores for each item/resource pair;

multiplying each assignment score sum by an assignment cost associated with the sum's corresponding item/resource pair to produce a cost matrix; and

applying [[the]] a Hungarian method to the cost matrix.

- 2. (Original) The method according to Claim 1, wherein the resources are buffers.
- 3. (Currently Amended) The method according to Claim 2, wherein at least one of the assignment strategies is chosen from the group consisting of strategies based on [[the]] a storage level of the buffers, strategies based on [[the]] a set-up time requirements of the buffers, strategies based on [[the]] priorities of storing items in the buffers, and strategies based on [[the]] compatibility of multiple items in a single buffer.
- 4. (Currently Amended) The method according to Claim 2, wherein all of the assignment strategies are chosen using Game theory from the group consisting of strategies based on [[the]] <u>a</u> storage level of the buffers, strategies based on [[the]] <u>a</u> set-up time requirements of the buffers, strategies based on [[the]] priorities of storing items in the buffers, and strategies based on [[the]] compatibility of multiple items in a single buffer.
- 5. (Original) The method according to Claim 1, wherein the resources are storage tanks.
- 6. (Currently Amended) A computer-readable medium having computer-executable instructions for performing a method comprising:

identifying one or more assignment strategies for assigning one or more resources

to one or more items;

for each identified assignment strategy, determining an assignment score for each item/resource pair;

summing the assignment scores for each item/resource pair; multiplying each assignment score sum by an assignment cost associated with the

applying [[the]] a Hungarian method to the cost matrix.

sum's corresponding item/resource pair to produce a cost matrix; and

- 7. (Original) The method according to Claim 6, wherein the resources are buffers.
- 8. (Currently Amended) The method according to Claim 7, wherein at least on of the assignment strategies is chosen from the group consisting of strategies based on [[the]] a storage level of the buffers, strategies based on [[the]] a set-up time requirements of the buffers, strategies based on [[the]] priorities of storing items in the buffers, and strategies based on [[the]] compatibility of multiple items in a single buffer.
- 9. (Currently Amended) The method according to Claim 7, wherein all of the assignment strategies are chosen from the group consisting of strategies based on [[the]] a storage level of the buffers, strategies based on [[the]] a set-up time requirements of the buffers, strategies based on [[the]] priorities of storing items in the buffers, and strategies based on [[the]] compatibility of multiple items in a single buffer.
- 10. (Original) The method according to Claim 6, wherein the resources are storage tanks.
 - 11. (New) The method according to Claim 2 wherein the buffers comprise airplanes.
- 12. (New) The method according to Claim 1 wherein the cost of assigning resources to items is measured in monetary units, time units or space units.